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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/807,436	06/26/2001	Hiroshi Nagasaka	010447	1060
23850	7590 09/08/2003			
ARMSTRONG,WESTERMAN & HATTORI, LLP 1725 K STREET, NW SUITE 1000			EXAMINER	
			TURNER, AI	RCHENE A
WASHINGTO	ON, DC 20006		ART UNIT	PAPER NUMBER
			1775	16
			DATE MAILED: 09/08/2003	(0)

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/807,436	NAGASAKA ET AL.
	Offic Action Summary	Examiner	Art Unit
		Archene Turner	1775
	- The MAILING DATE of this communication		
Period fo	r Reply		
THE N - Exter after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI sions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory p e to reply within the set or extended period for reply will, by the ply received by the Office later than three months after the d patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may on. a reply within the statutory minimum of eriod will apply and will expire SIX (6) M statute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on	26 June 2003 .	
2a) <u></u> □		This action is non-final.	
3)	Since this application is in condition for a closed in accordance with the practice up	llowance except for formal n	natters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
•	on of Claims		
	Claim(s) <u>19-31</u> is/are pending in the appli		
_	a) Of the above claim(s) is/are with	ndrawn from consideration.	
5)[Claim(s) is/are allowed.		
	Claim(s) <u>19-31</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction a on Papers	nd/or election requirement.	
9)□ T	he specification is objected to by the Exar	miner.	
10)∐ T	he drawing(s) filed on is/are: a) _ a	accepted or b) objected to by	y the Examiner.
	Applicant may not request that any objection	to the drawing(s) be held in abe	eyance. See 37 CFR 1.85(a).
11) 🔲 T	he proposed drawing correction filed on $_$	is: a)□ approved b)□	disapproved by the Examiner.
	If approved, corrected drawings are required		
12) 🔲 T	he oath or declaration is objected to by th	e Examiner.	
riority u	nder 35 U.S.C. §§ 119 and 120		
13)🛛 🛚	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C	s. § 119(a)-(d) or (f).
a)[∑	〗All b) ☐ Some * c) ☐ None of:		
•	I. Certified copies of the priority docum	nents have been received.	
2	2. Certified copies of the priority docum	nents have been received in	Application No
	B. Copies of the certified copies of the application from the International the the attached detailed Office action for a	l Bureau (PCT Rule 17.2(a))	
	knowledgment is made of a claim for dom	· ·	
a)	☐ The translation of the foreign language cknowledgment is made of a claim for don	provisional application has	been received.
ttachment(
Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948 ation Disclosure Statement(s) (PTO-1449) Paper No) 5) ☐ Notice o	w Summary (PTO-413) Paper No(s) If Informal Patent Application (PTO-152)
Patent and Trac D-326 (Rev.		e Action Summary	Part of Paper No. 16

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 19-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 19,20,21 and 31 there are no units for the hardness value, rendering all the claims indefinite.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claim 31 is rejected under 35 U.S.C. 102(b) as being anticipated by Vaz et al ("Physical,...films').

Vaz et al discloses the claimed (Ti,Si)N film within the claimed crystal structure and hardness.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 19-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Vaz et al ("Physical...films") in view of Kukino et al (5,700,551).

Vaz et al discloses an (Ti,Si)N film and not the claimed Cr, Zr, Hf, or B inclusion.

Kukino et al discloses it is known to include these components in TiN films to

produce cubic films.

Thus it would have been obvious to one of ordinary skill in the art to substitute

the Si in Vaz et al with the claimed components, as these components are known

in the coating art to behave as Si, as shown by Kukino et al.

7. Any inquiry regarding this communication or earlier communications from the

Examiner should be directed to Archene Turner, whose telephone number is (703) 308-

4344. The Examiner can normally be reached Monday to Thursday from 8:30 AM to

6:00 PM.

A facsimile center has been established for Group 1700, in Crystal Mall I. The

hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier

number for accessing the facsimile machine is (703) 872-9306 for all official faxes. This

location should be used in all instances when faxing any correspondence to Art Unit

1775.

Any inquiry of a general nature or relating to the status of this application should

be directed to the Group receptionist whose telephone number is (703) 308-0661.

A. A. Turner

Primary Examiner Group 1700

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